What is claim is

1. A white light-emitting device, comprising:

a light-emitting diode emitting one of blue and blue-green color;

a first phosphor capable of emitting a yellow light with 520 to 580 nm wavelength upon excitation by the light-emitting diode;

a second phosphor capable of emitting a red light with 580 to 640 nm wavelength upon excitation by the light-emitting diode;

the light from the light-emitting diode and the two phosphors being mixed to provide a white light.

2. The white light-emitting device as in claim 1, wherein the light-emitting diode emits a light of 450-500nm wavelength, preferably 470-500nm wavelength

3. The white light-emitting device as in claim 1, wherein the formula of the first phosphor is preferably $(Y_xM_yCe_z)Al_5O_{12}$, wherein $x + y = 3$, and x、$y \neq 0$, $0.5>z>0$, M is selected from a group consisting of Tb, Lu and Yb, wherein $(Y_xM_yCe_z)Al_5O_{12}$ is host matrix and Ce is luminescence center.

4. The white light-emitting device as in claim 1, wherein the formula of the second phosphor is preferably $(M'_aEu_b)S$, wherein $a+ b = 1\sim1.2$, and a, $b\neq0$, M' is selected from a group consisting of Ca, Sr and Ba, wherein M' is host matrix and Eu is luminescence center.

5. The white light-emitting device as in claim 1, wherein the two phosphors are further mixed with a packaging material and each of the phosphors has a mixing ratio to change the color temperature and color rendering property of the white light-emitting device.